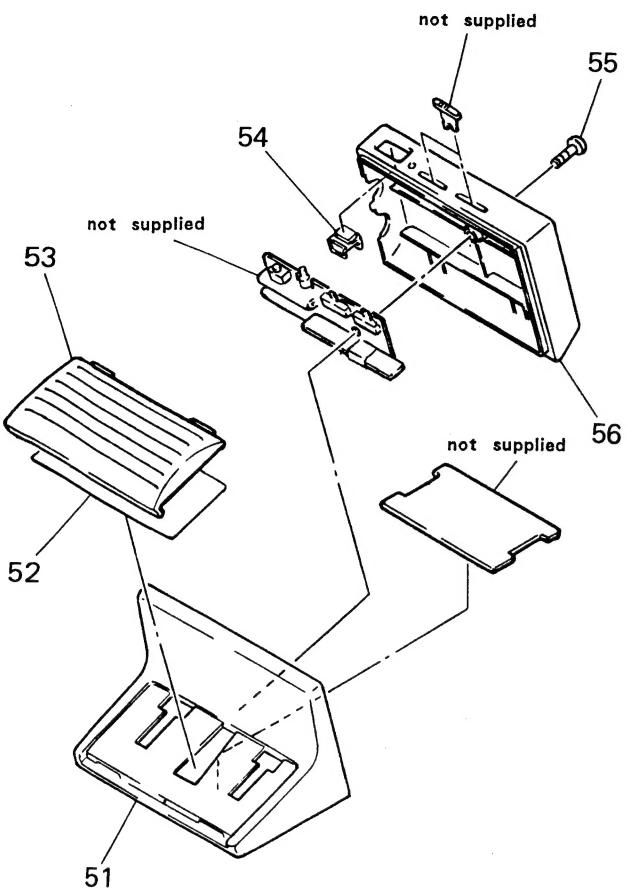


## (2) ANTENNA CONTROLLER



## 4. ELECTRICAL PARTS LIST

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

## CAPACITORS:

MF:  $\mu$ F, PF:  $\mu\mu$ F.

## RESISTORS

• All resistors are in ohms.  
• F: nonflammable

## COILS

• MMH: mH, UH:  $\mu$ H

## SEMICONDUCTORS

In each case, U:  $\mu$ , for example:  
UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

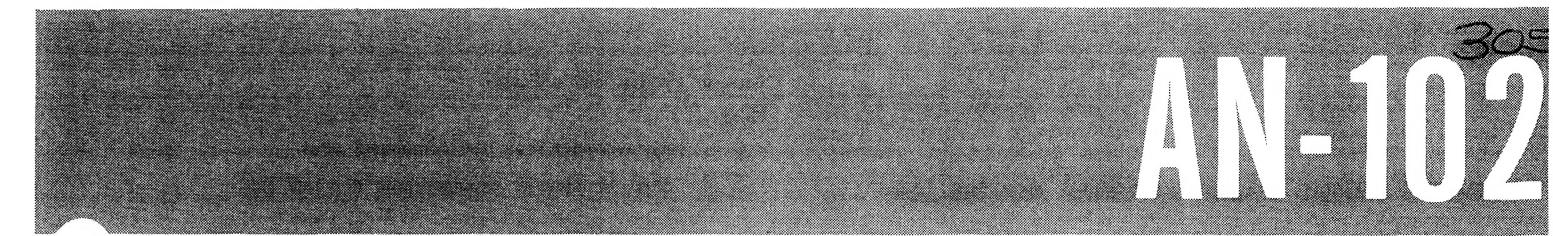
Ref.No.	Part No.	Description			
901	1-501-400-11	ANTENNA, TELESCOPIC			
902	1-559-706-11	CORD (WITH PLUG)			
C11	1-163-038-00	CERAMIC CHIP 0.1MF			
C12	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	
C13	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
C14	1-163-038-00	CERAMIC CHIP 0.1MF		25V	
D11	8-719-900-23	DIODE GL-2ARI			
IC11	8-759-945-79	IC BU2300A			
J11	1-563-836-21	JACK (ANT.MODULE)			
J12	1-563-836-21	JACK (OUTPUT)			
L11	1-410-336-11	INDUCTOR 220UH			
L12	1-402-414-11	ANTENNA, FERRITE-ROD (LW/MW)			
R11	1-216-025-00	METAL GLAZE 100	5%	1/10W	
R12	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R13	1-216-097-00	METAL GLAZE 100K	5%	1/10W	
R14	1-216-121-00	METAL GLAZE 1M	5%	1/10W	
R15	1-216-206-00	METAL GLAZE 240K	5%	1/10W	
R16	1-216-041-00	METAL GLAZE 470	5%	1/10W	
R17	1-216-023-00	METAL GLAZE 82	5%	1/10W	
R18	1-216-023-00	METAL GLAZE 82	5%	1/10W	
R19	1-216-295-00	METAL GLAZE 0	5%	1/10W	
S11	1-554-088-00	SWITCH, KEY BOARD (POWER)			
S12	1-553-510-00	SWITCH, SLIDE (ATTENUATOR)			
S13	1-553-510-00	SWITCH, SLIDE (BAND)			

No.	Part No.	Description	Remarks
51	2-134-805-01	CABINET (FRONT)	
52	*2-134-808-01	SHEET, ADHESIVE	
53	2-134-809-01	RUBBER, CUSHION	
54	2-134-803-01	BUTTON, POWER	
55	7-685-648-79	SCREW +BTP 3X12 TYPE2 N-S	
56	2-134-806-01	CABINET (REAR)	

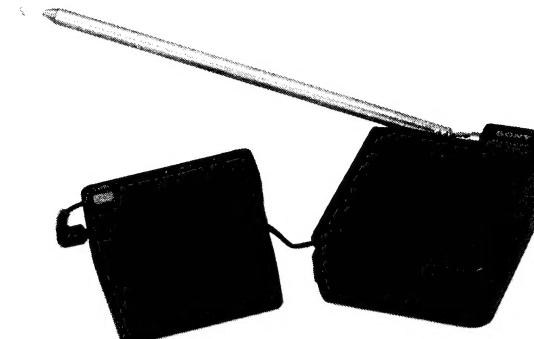
## ACCESSORY &amp; PACKING MATERIAL

1-555-532-00 CORD, CONNECTION  
1-574-502-11 CORD (WITH PLUG)  
\*2-134-804-01 LABEL (CASE)

2-134-807-01 CASE, CARRYING  
\*2-134-811-01 INDIVIDUAL CARTON  
3-786-951-01 MANUAL, INSTRUCTION



## SERVICE MANUAL



ANTENNA CONTROLLER

ANTENNA MODULE

## SPECIFICATIONS

Power requirement	DC 6V Four R6 (size AA) batteries
Timer	Approx. 120 min.
Batteries life	Approx. 180 hours using Sony SUM-3 (NS) batteries
Dimensions	Antenna module Approx. 100×260×36mm (w/h/d) (4×10 $\frac{1}{4}$ ×1 $\frac{3}{16}$ inches)
	Antenna controller Approx. 80×52.5×70mm (w/h/d) (3 $\frac{1}{4}$ ×2 $\frac{1}{8}$ ×2 $\frac{3}{16}$ inches)
Weight	Antenna module Approx. 182g (6.4 oz) Antenna controller Approx. 90g (3.2 oz)
Accessories supplied	Connecting cord (2) Carrying case (1)

COMPACT ACTIVE ANTENNA  
**SONY**<sup>®</sup>

US Model  
Canadian Model  
AEP Model  
UK Model  
E Model



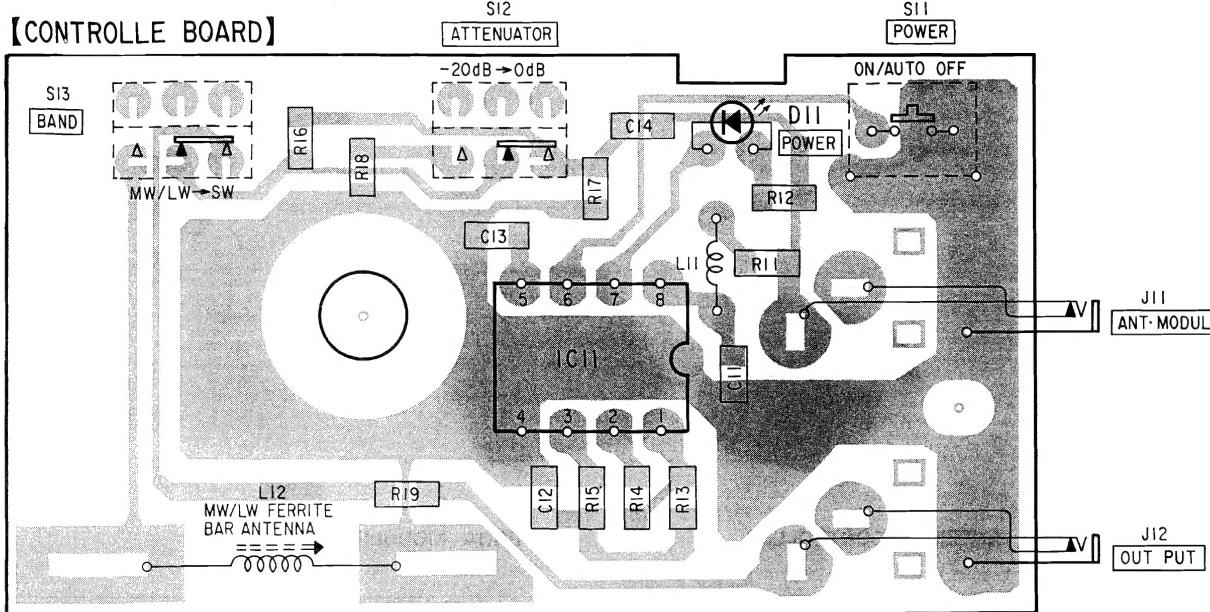
## Note on Printed Wiring Board :

Note :

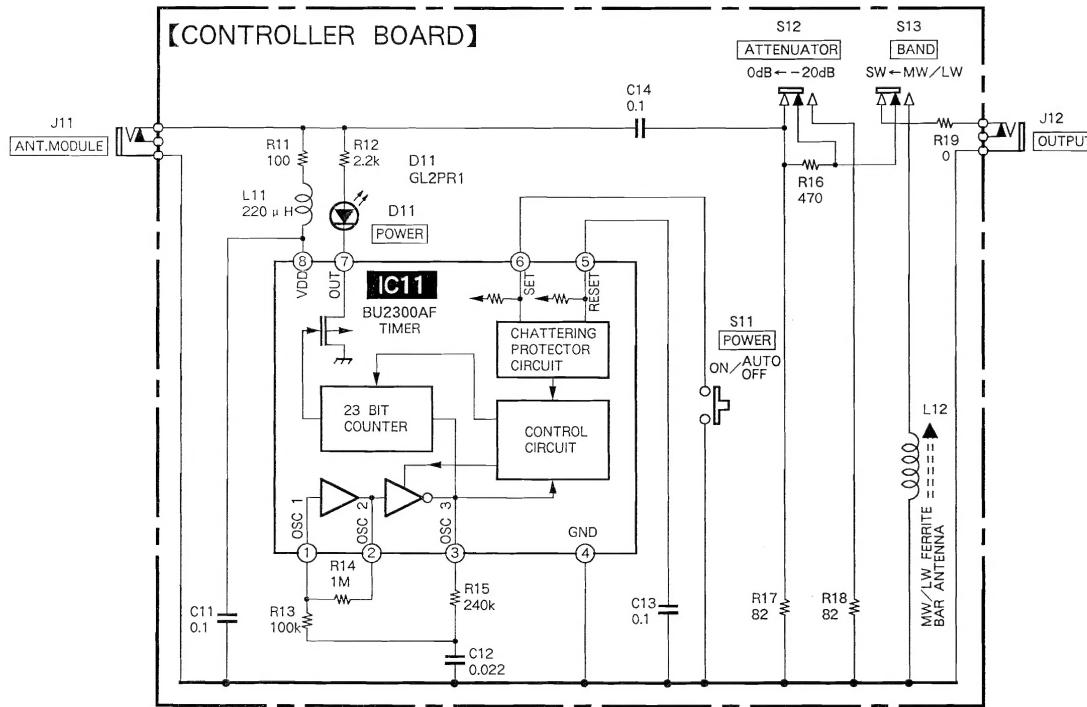
- : parts extracted from the component side.
- : Chip components extracted from the rear side.

## 1. PRINTED WIRING BOARD (ANTENNA CONTROLLER)

## [CONTROLLE BOARD]



## 2. SCHMATIC DIAGRAM (ANTENNA CONTROLLER)



## Note on Schematic Diagram :

Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\mu\text{F}$  :  $\mu\mu\text{F}$   
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- Switch

Ref. No.	Switch	Position
S11	POWER	OFF
S12	ATTENUATOR	0dB
S13	BAND	SW

## SEMICONDUCTOR LEAD LAYOUTS

BU2300A



GL-2AR1

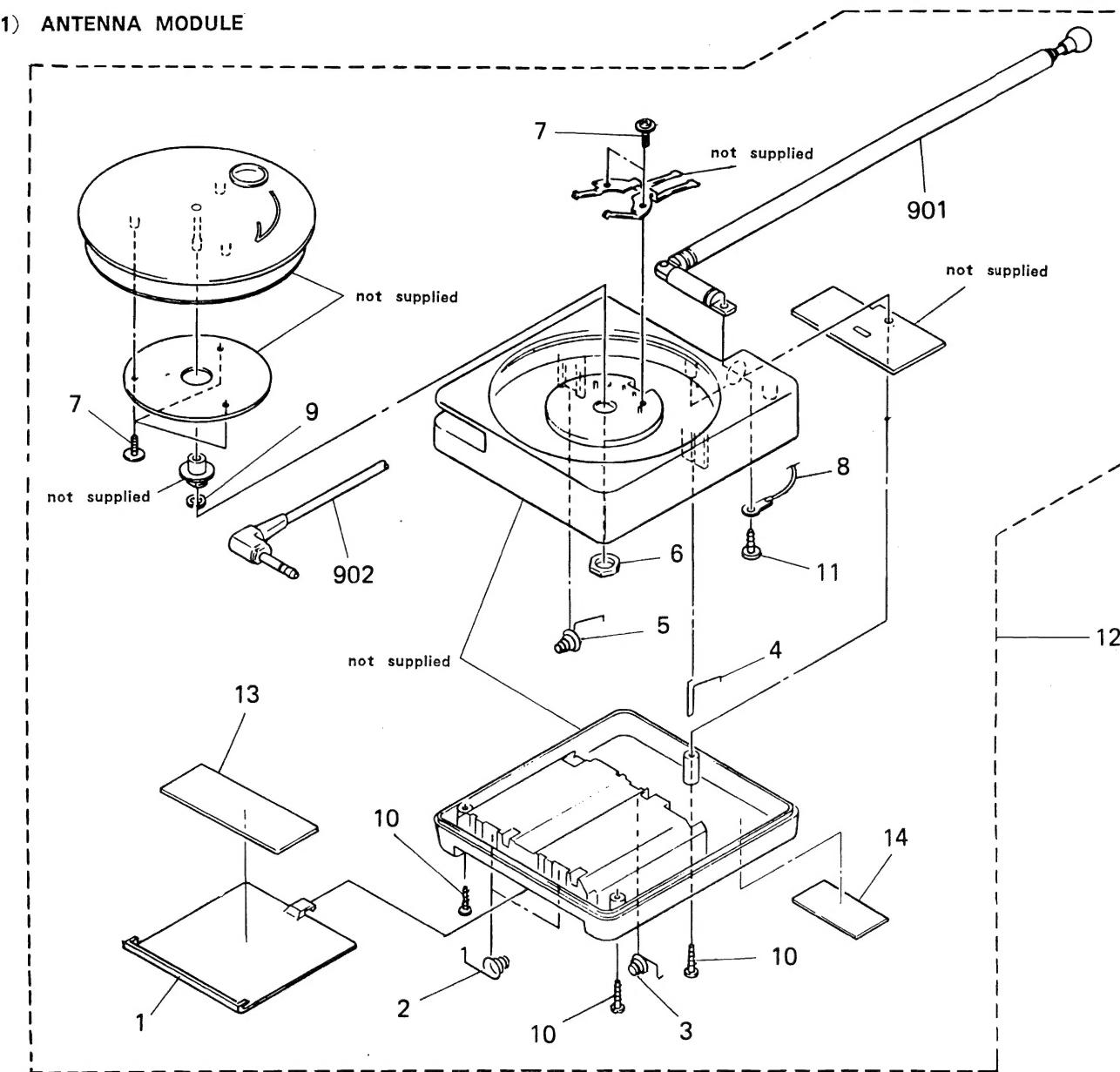


## 3. EXPLODED VIEWS

## NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## (1) ANTENNA MODULE



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-899-544-01	LID, BATTERY CASE		8	7-623-508-01	LUG, 3	
2	3-894-723-01	SPRING (B)		9	7-624-104-04	STOP RING 2.0, TYPE -E	
3	3-894-717-01	SPRING (A)		10	7-685-105-19	SCREW +P 2X8 TYPE2 SLIT	
4	3-899-542-01	TERMINAL (-), BATTERY		11	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
5	3-899-541-01	TERMINAL (+), BATTERY		12	A-3641-193-A	ANTENNA ASSY	
6	3-897-115-01	NUT, VOLUME		13	9-911-815-01	CUSHION	
7	3-318-201-31	SCREW (B) (1.4X5), TAPPING		14	*2-134-801-01	LABEL, MODEL NUMBER (W)	